TRANSLATION of related part of Form PCT/ISA/237

PATENT COOPERATION TREATY

From Japanese Patent Office
(INTERNATIONAL SEARCH AUTHORITY)

To: HAYASE, Kenichi HAYASE & CO.			PCT			
13F, NISSAY SHIN-OSAKA Bldg.,		WRITTEN OPINION OF THE ISA				
3-4-30, Miyahara, Yod		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(PCT Rule 43bis)			
Osaka-shi, Osaka 532-	-		(2 0 2 2000)			
		Dete of Mailing	-			
		Date of Mailing	l January 2005			
		0.11				
Applicant's or agent's file reference P35826-P0		See item 2 below for the subsequent procedure				
International application No.	International filing dat	te	Priority date			
PCT/JP2004/016575	09 Novem	·				
International Patent Classification (IPC) or na						
Int. Cl ⁷ G11B20/10, 20/14, H03H17/02, 17/06, 21/00						
Applicant						
<u> </u>	ta Electric	Industrial C	o., Ltd.			
1. This opinion contains indications related in the priority in the priority in the priority in the contains of the opinion in the priority in the priority industrial applicability; citated in the priority in the interest in the priority	t with regard to nove Rule 43,2.1(a)(i) with tions and explanation national application international applica	olty, inventive step or n regard to novelty, in ns supporting such s	nventive step or			
Date of completion of this opinion						
	17 December 2004					
Name and an in the state of the	T Deceill					
Name and mailing address of the ISA/JP Japanese Patent Of		ber 2004 Authorized officer				

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WRITTEN OPINION OF THE ISA

International application No. PCT/JP2004/016575

I . Basis of the opinion
1. This opinion has been drawn on the basis of the language of international application, unless otherwise indicated below.
OMISSION(2, 3, and 4)

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WRITTEN OPINION OF THE ISA

International application No. PCT/JP2004/016575

V Reasoned statement under Rule 43,2.1(a)(i) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement

TATEMENT			
Novelty (N)	Claims	1-10	YES
	Claims	NONE	NO
Inventive Step(IS)	Claims	3-10	YES
	Claims	1,2	NO
Industrial Applicability (IA)	Claims	1-10	YES
	Claims	NONE	NO

2. CITATIONS AND EXPLANATIONS

Reference 1: JP 2002-269925 A (Matsushita Electric Industrial Co., Ltd.) 2002.09.20

Reference 2: JP 10-214458 A (Matsushita Electric Industrial Co., Ltd.)

1998.08.11

Reference 3: JP 02-260876 A (Toshiba Corporation) 1990.10.23

The invention as defined in Claim 1 has no inventive step in view of References 1 and 2 cited in the International Search Report.

Reference 1 describes the FIR filter that varies a filter coefficient, the equalization error detector 28 that detects an equalization error (which corresponds to the equalizing performance detecting unit), and the correlator 29, the feedback gain adjustor 30 and the filter coefficient update section 31 that update the filter coefficient from the output of the equalization error detector 28 (which corresponds to the equalization coefficient deciding unit) (Paragraphs [0051], [0054]-[0056]).

Reference 2 describes a technique that the PLL circuit 5 extracts a frame sync pulse TMAX from an output of the equalizer circuit (waveform equalizer) 1 (Paragraphs [0007], [0031], [0032]), and it is easy for persons skilled in the art to apply this technique to the technique described in Reference 1.

The invention as defined in Claim 2 has no inventive step in view of References 1 and 2, and Reference 3 cited in the International Search Report.

Reference 3 describes that waveform equalization is not performed after the tap gain of the transversal filter 15 is reset to the initial value before the PLL circuit 24 is synchronized, i.e., locked (page 4, upper right column, lines 9-16, page 4, lower right column, lines 2-10), and it is easy for persons skilled in the art to apply this technique to the techniques described in References 1 and 2.

The inventions as defined in Claims 3 to 10 are not described in any references cited in the International Search Report, nor obvious to persons skilled in the art.